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(54) SHORT-ARC METAL HALIDE LAMP

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a short-arc metal halide lamp not developing the distortions or cracks of an electrode embedded section caused by the temperature gradient due to the high temperature of an anode peculiar to a small-sized DC-lighting type lamp and having a long life by applying a heat retaining film on the outer periphery of the seal section side buried with at least the anode of an arc tube.

SOLUTION: An anode 2a and a cathode 2b are embedded and fixed in seal sections at both ends of an arc tube 1 made of quartz glass. A molybdenum foil 3 is connected to the anode 2a and cathode 2b and is connected to an external lead wire. A heat-resistant/heat retaining reflecting film 4a made of white alumina silica is applied near the embedded section of the cathode 2b, and a heat-resistant/heat retaining reflecting film 4b made of white alumina silica is likewise applied on the outer periphery near the embedded section of the anode 2a. The arc tube 1 is formed into a rotary ellipsoidal shape, and it is fixed to the bottom section of a reflecting mirror 5 with a cold mirror with cement via a base fixed at one end of the arc tube 1.

